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**United States Patent** [19]

DiGiulio et al.

[11] **Patent Number:** 6,037,973[45] **Date of Patent:** Mar. 14, 2000[54] **FILM TRANSPORT AND METHOD**[75] **Inventors:** Edmund M. DiGiulio, Malibu; James M. Bartell, Long Beach; John Jurgens, Woodland Hills, all of Calif.[73] **Assignee:** Cinema Products Corporation, Los Angeles, Calif.[21] **Appl. No.:** 08/829,359[22] **Filed:** Apr. 2, 1997[51] **Int. Cl.<sup>7</sup>** ..... H04N 5/253; H04N 9/47; H04N 3/36; H04N 9/11[52] **U.S. Cl.** ..... 348/96; 348/97[58] **Field of Search** ..... 348/96, 97, 102, 348/105, 107, 110, 112; 352/229, 121, 122, 224, 228, 241; H04N 5/253, 9/47, 3/36, 9/11[56] **References Cited****U.S. PATENT DOCUMENTS**

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## [57]

**ABSTRACT**

A film transport and method for use with an image transfer system to sequentially register respective frames of motion picture film within the field of view of an image recorder. The transport includes a gate having a drive mechanism and a registration mechanism that immobilizes each frame and orients it into a precise stationary position for digital or analog image recording.

**21 Claims, 4 Drawing Sheets**